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## FIG. 1A

Met Glu Leu Lys Thr Glu Glu Glu Glu Val Gly Gly Val Gln Pro Val Ser Ile  
Pro Val Ser Ile

Gln Ala Phe Ala Ser Ser Ser Thr Leu His Gly Leu Ala His Ile Phe Ser Tyr  
Gln Ala Phe Ala Ser Ser Ser Thr Leu His Gly Met Ala His Ile Phe Ser Tyr

Glu Arg Leu Ser Leu Lys Arg Ala Leu Trp Ala Leu Cys Phe Leu Gly Ser Leu  
Glu Arg Leu Ser Leu Lys Arg Ala Leu Trp Ala Leu Cys Phe Leu Gly Ser Leu

Ala Val Leu Leu Cys Val Cys Thr Glu Arg Val Gln Tyr Tyr Phe Cys Tyr His  
Ala Val Leu Leu Cys Val Cys Thr Glu Arg Val Gln Tyr Tyr Phe His Tyr His

His Val Thr Lys Leu Asp Glu Val Ala Ala Ser Gln Leu Thr Phe Pro Ala Val  
His Val Thr Lys Leu Asp Glu Val Ala Ala Ser Gln Leu Thr Phe Pro Ala Val

Thr Leu Cys Asn Leu Asn Glu Phe Arg Phe Ser Gln Val Ser Lys Asn Asp Leu  
Thr Leu Cys Asn Leu Asn Glu Phe Arg Phe Ser Gln Val Ser Lys Asn Asp Leu

Tyr His Ala Gly Glu Leu Leu Ala Leu Leu Asn Asn Arg Tyr Glu Ile Pro Asp  
Tyr His Ala Gly Glu Leu Leu Ala Leu Leu Asn Asn Arg Tyr Glu Ile Pro Asp

Thr Gln Met Ala Asp Glu Lys Gln Leu Glu Ile Leu Gln Asp Lys Ala Asn Phe  
Thr Gln Met Ala Asp Glu Lys Gln Leu Glu Ile Leu Gln Asp Lys Ala Asn Phe

Arg Ser Phe Lys Pro Lys Pro Phe Asn Met Arg Glu Phe Tyr Asp Arg Ala Gly  
Arg Ser Phe Lys Pro Lys Pro Phe Asn Met Arg Glu Phe Tyr Asp Arg Ala Gly

His Asp Ile Arg Asp Met Leu Leu Ser Cys His Phe Arg Gly Glu Ala Cys Ser  
His Asp Ile Arg Asp Met Leu Leu Ser Cys His Phe Arg Gly Glu Val Cys Ser

Ala Glu Asp Phe Lys Val Val Phe Thr Arg Tyr Gly Lys Cys Tyr Thr Phe Asn  
Ala Glu Asp Phe Lys Val Val Phe Thr Arg Tyr Gly Lys Cys Tyr Thr Phe Asn

Ser Gly Gln Asp Gly Arg Pro Arg Leu Lys Thr Met Lys Gly Gly Thr Gly Asn  
Ser Gly Arg Asn Gly Arg Pro Arg Leu Lys Thr Met Lys Gly Gly Thr Gly Asn

Gly Leu Glu Ile Met Leu Asp Ile Gln Gln Asp Glu Tyr Leu Pro Val Trp Gly  
Gly Leu Glu Ile Met Leu Asp Ile Gln Gln Asp Glu Tyr Leu Pro Val Trp Gly

Glu Thr Asp Glu Thr Ser Phe Glu Ala Gly Ile Lys Val Gln Ile His Ser Gln  
Glu Thr Asp Glu Thr Ser Phe Glu Ala Gly Ile Lys Val Gln Ile His Ser Gln

Asp Glu Pro Pro Phe Ile Asp Gln Leu Gly Phe Gly Val Ala Pro Gly Phe Gln  
Asp Glu Pro Pro Phe Ile Asp Gln Leu Gly Phe Gly Val Ala Pro Gly Phe Gln



## FIG. 1B

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Thr Phe Val Ser Cys Gln Glu Gln Arg Leu Ile Tyr Leu Pro Ser Pro Trp Gly  
Thr Phe Val Ala Cys Gln Glu Gln Arg Leu Ile Tyr Leu Pro Pro Pro Trp Gly

Thr Cys Asn Ala Val Thr Met Asp Ser      Asp Phe Phe Asp Ser Tyr Ser  
Thr Cys Lys Ala Val Thr Met Asp Ser Asp Leu Asp Phe Phe Asp Ser Tyr Ser

Ile Thr Ala Cys Arg Ile Asp Cys Glu Thr Arg Tyr Leu Val Glu Asn Cys Asn  
Ile Thr Ala Cys Arg Ile Asp Cys Glu Thr Arg Tyr Leu Val Glu Asn Cys Asn

Cys Arg Met Val His Met Pro Gly Asp Ala Pro Tyr Cys Thr Pro Glu Gln Tyr  
Cys Arg Met Val His Met Pro Gly Asp Ala Pro Tyr Cys Thr Pro Glu Gln Tyr

Lys Glu Cys Ala Asp Pro Ala Leu Asp Phe Leu Val Glu Lys Asp Gln Glu Tyr  
Lys Glu Cys Ala Asp Pro Ala Leu Asp Phe Leu Val Glu Lys Asp Gln Glu Tyr

Cys Val Cys Glu Met Pro Cys Asn Leu Thr Arg Tyr Gly Lys Glu Leu Ser Met  
Cys Val Cys Glu Met Pro Cys Asn Leu Thr Arg Tyr Gly Lys Glu Leu Ser Met

Val Lys Ile Pro Ser Lys Ala Ser Ala Lys Tyr Leu Ala Lys Lys Phe Asn Lys  
Val Lys Ile Pro Ser Lys Ala Ser Ala Lys Tyr Leu Ala Lys Lys Phe Asn Lys

Ser Glu Gln Tyr Ile Gly Glu Asn Ile Leu Val Leu Asp Ile Phe Phe Glu Val  
Ser Glu Gln Tyr Ile Gly Glu Asn Ile Leu Val Leu Asp Ile Phe Phe Glu Val

Leu Asn Tyr Glu Thr Ile Glu Gln Lys Lys Ala Tyr Glu Ile Ala Gly Leu Leu  
Leu Asn Tyr Glu Thr Ile Glu Gln Lys Lys Ala Tyr Glu Ile Ala Gly Leu Leu

Gly Asp Ile Gly Gly Gln Met Gly Leu Phe Ile Gly Ala Ser Ile Leu Thr Val  
Gly Asp Ile Gly Gly Gln Met Gly Leu Phe Ile Gly Ala Ser Ile Leu Thr Val

Leu Glu Leu Phe Asp Tyr Ala Tyr Glu Val Ile Lys His Arg Leu Cys Arg Arg  
Leu Glu Leu Phe Asp Tyr Ala Tyr Gly Val Ile Lys His Lys Leu Cys Arg Arg

Gly Lys Cys Gln Lys Glu Ala Lys Arg Ser Ser Ala Asp Lys Gly Val Ala Leu  
Gly Lys Cys Gln Lys Glu Ala Lys Arg Ser Ser Ala Asp Lys Gly Val Ala Leu

Ser Leu Asp Asp Val Lys Arg His Asn Pro Cys Glu Ser Leu Arg Gly His Pro  
Ser Leu Asp Asp Val Lys Arg His Asn Pro Cys Glu Ser Leu Arg Gly His Pro

Ala Gly Met Thr Tyr Ala Ala Asn Ile Leu Pro His His Pro Ala Arg Gly Thr  
Ala Gly Met Thr Tyr Ala Ala Asn Ile Val Pro His His Pro Ala Arg Gly Thr

Phe Glu Asp Phe Thr Cys  
Phe Glu Asp Phe Thr Cys

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REPLACEMENT SHEET



FIG. 2A

FaNaCh MEC-4	1	MSWMONLKNOHLRDPSEYMSOVYGDPLAYLQENTKFTEREYEDFGYGEFCNSESSEV	MKYTSAAATKPGVFPPEHKKOHAMMRNRYHHPHHHCNY
ASIC MDEG FaNaCh MEC-4	1	MEIKTEEEVGGPOPVSIQAFASSTLHGDAHIFSYERLSEKRALWAECFEGSL ADLKESPSE. GSPOPSIOIFANSTLHGIRHIFVYPLTTRRVLWAIAEFGSL 34 SDNRSAHOFIAELSESNAHGAKLVT.SRDTKRKVAIAELVAGGF 61 OCELITGEFOPKLLPYDKRLAWHFKEFCYKESAHGIP. IIGEPNVYRYAYVVLIEGCM	M I
ASIC MDEG FaNaCh MEC-4	55	ELLVCVCIERVQVYFCYHHVTKIDEVAAASOLTFFPAVTLCHLHFRFSQVSKNDLYHAG 54 ELLVPSSESVSYVSYOHVTKIDEVAAASOLTFFPAVTLCHLHFRFSRITLUDLYHAG 79 TAAITLSSILLARKVLOQOVMELESIKDSMPVQVPSVSNCHIEPISLRIERR. DVFENN 120 IRELYLNLOSVELDKVNRNREKTVOLKFDTA. PEPATLCHLNPZASLATSVDLVRTLS	
ASIC MDEG FaNaCh MEC-4	113	ELLALLGNRYZIPDIOADEKQLEILLQOKANFRI 112 ELLALLDVNLIIPDPPIHIAADPTVLENLROKANEK 135 ESONLETWLRFLOKFFIFEODSIFMNSIRAFYENL 359 EHWYLOGGTPTEDPNFLEAMGFDEMTTDEVAIV	
ASIC MDEG FaNaCh MEC-4	146	SPKPKPFENHREFYDRAGHDLDOMLSCFFHGBACSAEDFKVVFITVYGKCYTF 145 HAKPKGFESHGEFLHRVGHDLDMJLYCMFNGGECGHEB.DFTTVF.TVYGKCYMF 168 GODAKKLSHLEEDMCHCREFNRRLCHVS. TFFTFFEDGNVFNCEFTF 419 TKAKENIMFAMATLSMCDRERGSTTKRESEVHKCSFENGKACDIEADFLTIDPVEGSCATE	
ASIC MDEG FaNaCh MEC-4	198	NSGGDGPRLKFTKGGGTGNGLIIMLDIOODEYL 197 NSGPDGMLPLTTKGGGTGNGLIIMLDIOODEYL 212 NSGOL...RLQMHATGPERGLSIFESVCKKDDPLPGTYGVYFNFDNLIHSAGVRLVLAHAPG 479 H...HNRVTNLTSTGGGPMYGLRANVYANA SIVTP	
ASIC MDEG FaNaCh MEC-4	254	EPPFIOLGFGVAPGFOTFVSCQEORLLYLPSPWGTICNAVITADSDOFFDS 253 EPPFIOLGFGVAPGFOTFVATTOEORLTYP PPWGTICRSEAGLDFEPY...VSITACRI 268 SMPSPVHGLDMPGVS SVGLKA I LHLRLPY PYGNCTNDMNGIKQYK...VLEFFACLO 526 DFPFDPDTFGZSAPTGVVSSFLRLRRLRATSRRLPAPYGDV VPOGKTSQY.IYSNYEYSVEGCRY	



FIG. 2B

ASIC	311	DCETRYLVENCNCRMVHMPGDAP	CTPEQ
MDEG	310	DCETRYLVENCNCRMVHMPGDAP	CTPEQ
FaNaCh	325	LCKQRL	
MEC-4	586	SCFQQL	
ASIC	340	YKECA	
MDEG	339	HKECA	
FaNaCh	385	YLA	
MEC-4	622	CL	
ASIC	381	SKASAKYLAKKFNKSEIO	
MDEG	380	SKTSAKYLEKKFNKSEK	
FaNaCh	445	OAGONHFMKTAYEVLEKLAHPS	
MEC-4	670		
ASIC	404	LVLDIFFEVLNYETIEOKKAYE	
MDEG	403	LVLDIFFEVLNYETIEOKKAYE	
FaNaCh	505	LRLE	
MEC-4	687	A	
ASIC	464	CRGKCQK	
MDEG	463	LDL	
FaNaCh	565	NSEKGLP	
MEC-4	747	EHNYS	

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FIG. 3

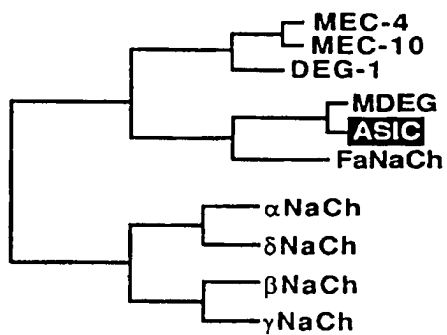


FIG. 4

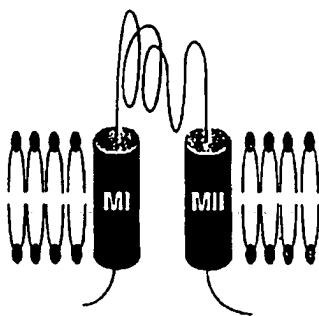




FIG. 5A

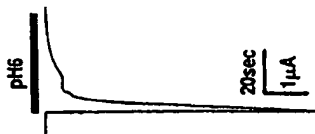


FIG. 5B

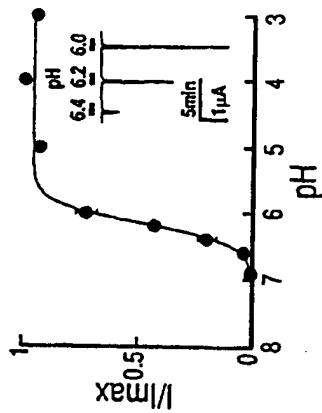


FIG. 5C

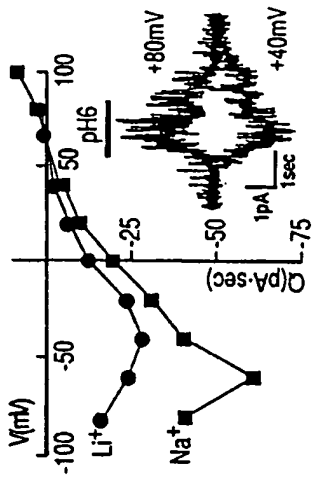


FIG. 5D

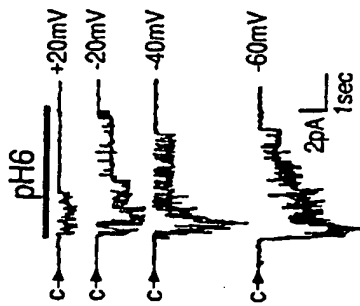


FIG. 5E

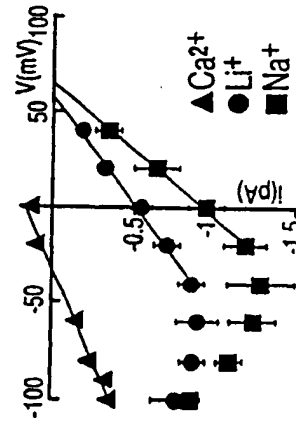


FIG. 5F

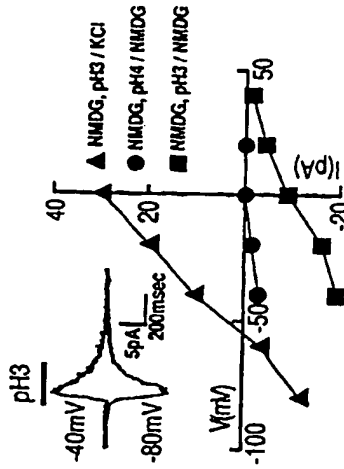




FIG. 6A

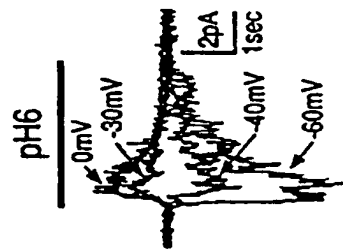


FIG. 6B

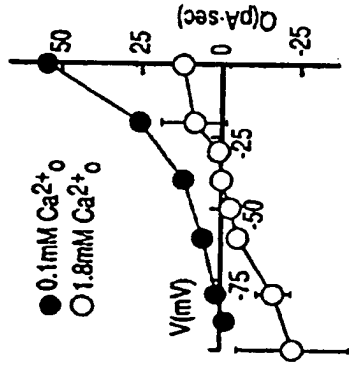


FIG. 6C

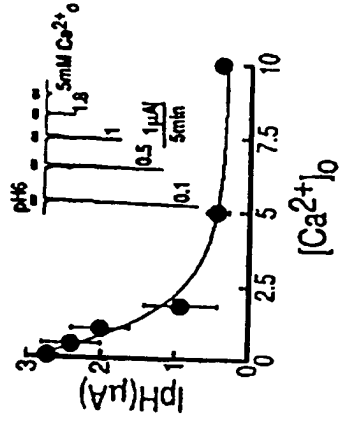


FIG. 6D

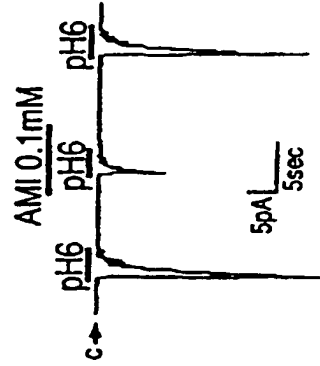


FIG. 6E

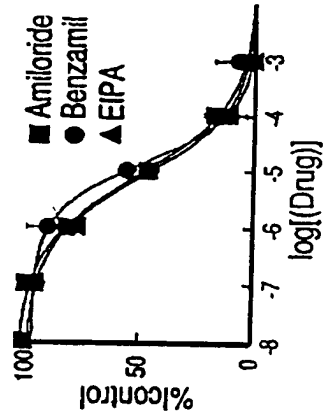




FIG. 7A

FIG. 7B

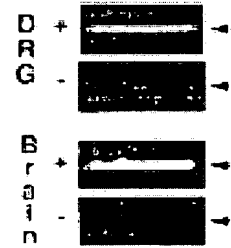
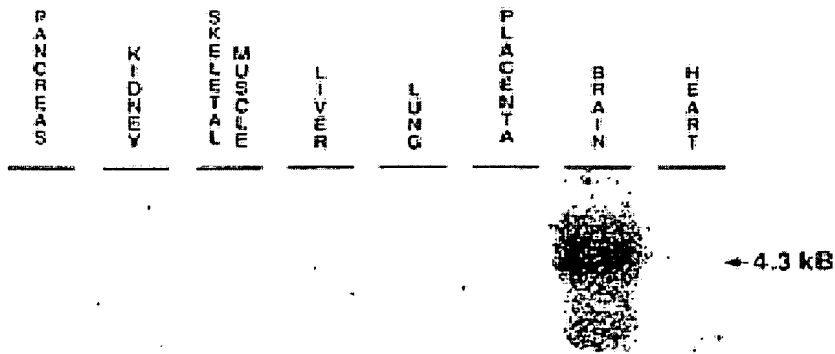






FIG. 8A



FIG. 8B

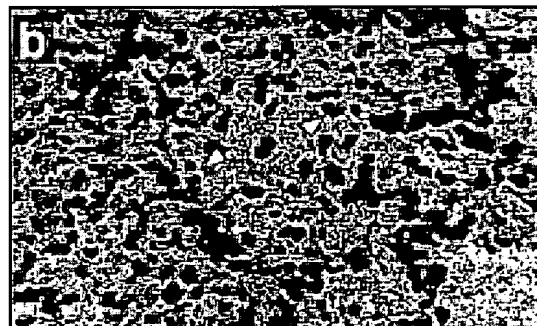


FIG. 8C

